

The Thermo Scientific Orion 3-Star Plus pH meters are ideal for a variety of pH measurements – water, media, beverage, process water.

## Thermo Scientific Orion 3-Star Plus pH Meters



### Features and Benefits

- Simultaneous display of pH or mV, and temperature measurements on the backlit LCD
- The Thermo Scientific Orion SMART STABILITY™ and SMART AVERAGING™ functions for automatically optimized accuracy, precision and response time
- Temperature calibration capability
- pH calibration of up to 5 points with calibration alarm
- Automatic buffer recognition of USA, NIST and DIN buffers
- Storage of up to 10 individually password protected methods for easy retrieval of operation procedures
- Datalog up to 1000 points with time and date stamp
- Average slope and slope of segment printed with pH measurements
- RS232 port for data downloads and communication
- Benchtop units can control an autosampler and the 096010 stirrer probe (*each sold separately*)
- Benchtop units are splashproof with an IP54-rated housing and include a universal power supply
- Portable units are waterproof with an IP67-rated housing and run for over 2,000 hours on four AA batteries
- 3 year meter replacement warranty

## Product Specifications and Ordering Information

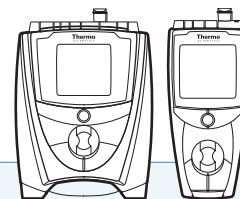
### Thermo Scientific Orion 3-Star Plus pH Meters

<b>pH</b>	Range	- 2.000 to 19.999
	Resolution	0.1, 0.01, 0.001
	Relative Accuracy	± 0.002
<b>mV</b>	Range	± 1999.9
	Resolution	0.1
	Relative Accuracy	± 0.2 or 0.05%, whichever is greater
<b>Temperature</b>	Range	- 5 to 105 °C
	Resolution	0.1 up to 99.9 °C, 1.0 over 99.9 °C
	Relative Accuracy	± 0.1 °C

### Ordering Information

Meters Only		
Cat. No.	Package	
1112000	Includes benchtop meter, universal power and user guide	
1212000	Includes portable meter, batteries and user guide	
Portable Meter Kits		
Cat. No.	Sensor (s)	Accessories and Solutions
1212001	<ul style="list-style-type: none"> <li>9107BNMMD Low maintenance epoxy pH/ATC Triode electrode</li> </ul>	<ul style="list-style-type: none"> <li>Beaker</li> <li>Electrode storage chamber</li> <li>pH electrode storage solution (5 x 60 mL bottles)</li> <li>pH 4.01, 7.00, 10.01 buffers (10 x 15 mL pouches)</li> <li>Hard field case</li> </ul>
1212002	<ul style="list-style-type: none"> <li>5107BNMMD No Cal refillable pH/ATC electrode</li> </ul>	<ul style="list-style-type: none"> <li>Beaker</li> <li>pH electrode storage solution (5 x 60 mL bottles)</li> <li>pH 4.01, 7.00, 10.01 buffers (10 x 15 mL pouches)</li> <li>Hard field case</li> </ul>
1212005	<ul style="list-style-type: none"> <li>8107BNUMD ROSS Ultra low maintenance pH/ATC Triode Electrode</li> </ul>	<ul style="list-style-type: none"> <li>Beaker</li> <li>Electrode storage chamber</li> <li>ROSS electrode storage solution (pint bottle)</li> <li>pH 4.01, 7.00, 10.01 buffers (10 x 15 mL pouches)</li> <li>Hard field case</li> </ul>
1212501	<ul style="list-style-type: none"> <li>9107BNMMD Low maintenance epoxy pH/ATC Triode electrode</li> </ul>	<ul style="list-style-type: none"> <li>Beaker</li> <li>Electrode storage chamber</li> <li>pH electrode storage solution (5 x 60 mL bottles)</li> <li>pH 4.01, 7.00, 10.01 buffers (10 x 15 mL pouches)</li> <li>Soft field case</li> </ul>
1212503	<ul style="list-style-type: none"> <li>9179BNMMD Low maintenance epoxy ORP/ATC Triode electrode</li> </ul>	<ul style="list-style-type: none"> <li>Meter impact jacket with electrode storage chamber</li> <li>ORP standard (5 x 60 mL bottles)</li> <li>Soft field case</li> </ul>
1212101	<ul style="list-style-type: none"> <li>9107BNMMD Low maintenance epoxy pH/ATC Triode electrode</li> </ul>	—

### Ordering Information (cont'd)



#### Benchtop Meter Kits

Cat. No.	Sensor (s)	Accessories and Solutions
1112001	<ul style="list-style-type: none"> <li>9157BNMMD refillable epoxy pH/ATC Triode electrode</li> </ul>	<ul style="list-style-type: none"> <li>Swing arm electrode stand</li> <li>pH 4.01, 7.00, and 10.01 buffers and pH electrode storage solution (pint bottles)</li> </ul>
1112003	<ul style="list-style-type: none"> <li>8102BNUWP ROSS Ultra refillable glass pH electrode</li> <li>927005MD Epoxy ATC probe</li> </ul>	<ul style="list-style-type: none"> <li>Swing arm electrode stand</li> <li>pH 4.01, 7.00, and 10.01 buffers and pH electrode storage solution (pint bottles)</li> </ul>
1112004	<ul style="list-style-type: none"> <li>9172BNWP Sure-Flow refillable glass pH electrode</li> <li>927007MD Stainless steel ATC probe</li> </ul>	<ul style="list-style-type: none"> <li>Swing arm electrode stand</li> <li>pH 4.01, 7.00, and 10.01 buffers and pH electrode storage solution (pint bottles)</li> </ul>
1112006	<ul style="list-style-type: none"> <li>8102BNUWP ROSS Ultra refillable glass pH electrode</li> <li>927005MD Epoxy ATC probe</li> </ul>	<ul style="list-style-type: none"> <li>Swing arm electrode stand</li> <li>pH 4.10, 6.79, and 9.15 pure water buffers and pH electrode storage solution (pint bottles)</li> <li>pHISA adjuster solution (5 x 60 mL bottles)</li> </ul>
1112201	<ul style="list-style-type: none"> <li>9157BNMMD Refillable epoxy pH/ATC Triode electrode</li> </ul>	<ul style="list-style-type: none"> <li>Swing arm electrode stand</li> </ul>
1112202	<ul style="list-style-type: none"> <li>8172BNWP ROSS Sure-Flow refillable glass pH electrode</li> <li>927006MD Glass ATC probe</li> </ul>	<ul style="list-style-type: none"> <li>Swing arm electrode stand</li> </ul>
1112203	<ul style="list-style-type: none"> <li>9156APWP AquaPro low maintenance epoxy pH electrode</li> </ul>	<ul style="list-style-type: none"> <li>Swing arm electrode stand</li> </ul>
1112204	<ul style="list-style-type: none"> <li>9107BNMMD Low maintenance epoxy pH/ATC Triode electrode</li> </ul>	<ul style="list-style-type: none"> <li>Swing arm electrode stand</li> </ul>
1112205	<ul style="list-style-type: none"> <li>9156BNWP Refillable epoxy pH electrode</li> <li>927007MD Stainless steel ATC probe</li> </ul>	<ul style="list-style-type: none"> <li>Swing arm electrode stand</li> </ul>
1112104	<ul style="list-style-type: none"> <li>9157BNMMD Refillable epoxy pH/ATC Triode electrode</li> </ul>	—
1112002	—	<ul style="list-style-type: none"> <li>Swing arm electrode stand</li> </ul>

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